



9

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<110> Li, Chun Ping
Zheng, Peizhong
Nichols, Scott

<120> METHODS FOR REGULATING BETA-OXIDATION IN PLANTS

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<141> 2001-07-05

<150> 60/216,211

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TECH CENTER 1600/2900

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Lys Asp Pro Tyr Ser Trp Pro Ala Pro Cys Val Ile Ile Ala Ser Asn	
135 140 145 150	
att ttt gtt gtg gct gca ttt cag att gag aag cgc ctg gca gtg ggt	593
Ile Phe Val Val Ala Ala Phe Gln Ile Glu Lys Arg Leu Ala Val Gly	
155 160 165	
gcc ctg aca gag cag atg ggg ctg ctg cta cat gtg gtt aac ctg gcc	641
Ala Leu Thr Glu Gln Met Gly Leu Leu Leu His Val Val Asn Leu Ala	
170 175 180	
aca atc att tgc ttc cca gca gct gtg gcc tta ctg gtt gag tct atc	689
Thr Ile Ile Cys Phe Pro Ala Ala Val Ala Leu Leu Val Glu Ser Ile	
185 190 195	
act cca gtg ggt tcc gtg ttt gct ctg gca tca tac tcc atc atg ttc	737
Thr Pro Val Gly Ser Val Phe Ala Leu Ala Ser Tyr Ser Ile Met Phe	
200 205 210	
ctc aag ctt tat tcc tac cgg gat gtc aac ctg tgg tgc cgc cag cga	785
Leu Lys Leu Tyr Ser Tyr Arg Asp Val Asn Leu Trp Cys Arg Gln Arg	
215 220 225 230	
agg gtc aag gcc aaa gct gtc tct aca ggg aag aag gtc agt ggg gct	833
Arg Val Lys Ala Lys Ala Val Ser Thr Gly Lys Lys Val Ser Gly Ala	
235 240 245	
gct gcc cag caa gct gtg agc tat cca gac aac ctg acc tac cga gat	881
Ala Ala Gln Gln Ala Val Ser Tyr Pro Asp Asn Leu Thr Tyr Arg Asp	
250 255 260	
ctc tat tac ttc atc ttt gct cct act ttg tgt tat gaa ctc aac ttt	929
Leu Tyr Tyr Phe Ile Phe Ala Pro Thr Leu Cys Tyr Glu Leu Asn Phe	
265 270 275	
cct cgg tcc ccc cga ata cga aag cgc ttt ctg cta cga cga gtt ctt	977
Pro Arg Ser Pro Arg Ile Arg Lys Arg Phe Leu Leu Arg Arg Val Leu	
280 285 290	
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Glu Met Leu Phe Phe Thr Gln Leu Gln Val Gly Leu Ile Gln Gln Trp	
295 300 305 310	

atg gtc cct act atc cag aac tcc atg aag ccc ttc aag gat atg gac	1073
Met Val Pro Thr Ile Gln Asn Ser Met Lys Pro Phe Lys Asp Met Asp	
315 320 325	
tat tca cgg atc att gag cgt ctc tta aag ctg gcg gtc ccc aac cat	1121
Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys Leu Ala Val Pro Asn His	
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Leu Ile Trp Leu Ile Phe Phe Tyr Trp Phe Phe His Ser Cys Leu Asn	
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Ala Val Ala Glu Leu Leu Gln Phe Gly Asp Arg Glu Phe Tyr Arg Asp	
360 365 370	
tgg tgg aat gct gag tct gtc acc tac ttt tgg cag aac tgg aat atc	1265
Trp Trp Asn Ala Glu Ser Val Thr Tyr Phe Trp Gln Asn Trp Asn Ile	
375 380 385 390	
ccc gtg cac aag tgg tgc atc aga cac ttc tac aag cct atg ctc aga	1313
Pro Val His Lys Trp Cys Ile Arg His Phe Tyr Lys Pro Met Leu Arg	
395 400 405	
cat ggc agc agc aaa tgg gtg gcc agg aca gga gta ttt ttg acc tca	1361
His Gly Ser Ser Lys Trp Val Ala Arg Thr Gly Val Phe Leu Thr Ser	
410 415 420	
gcc ttc ttc cat gag tac cta gtg agc gtt ccc ctg cgg atg ttc cgc	1409
Ala Phe Phe His Glu Tyr Leu Val Ser Val Pro Leu Arg Met Phe Arg	
425 430 435	
ctc tgg gca ttc aca gcc atg atg gct cag gtc cca ctg gcc tgg att	1457
Leu Trp Ala Phe Thr Ala Met Met Ala Gln Val Pro Leu Ala Trp Ile	
440 445 450	
gtg ggc cga ttc ttc caa ggg aac tat ggc aat gca gct gtg tgg gtg	1505
Val Gly Arg Phe Phe Gln Gly Asn Tyr Gly Asn Ala Ala Val Trp Val	
455 460 465 470	
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Thr Leu Ile Ile Gly Gln Pro Val Ala Val Leu Met Tyr Val His Asp	
475 480 485	
tac tac gtg ctc aac tac gat gcc cca gtg ggg gta tgagctactg	1599
Tyr Tyr Val Leu Asn Tyr Asp Ala Pro Val Gly Val	
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1650

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<211> 498

<212> PRT

<213> Mus musculus

<400> 8

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Ser Arg Val Ser Val Gln Gly Gly Ser Gly Pro Lys Val Glu Glu Asp
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Glu Val Arg Asp Ala Ala Val Ser Pro Asp Leu Gly Ala Gly Gly Asp
35 40 45

Ala Pro Ala Pro Ala Pro Ala Pro Ala His Thr Arg Asp Lys Asp Gly
50 55 60

Arg Thr Ser Val Gly Asp Gly Tyr Trp Asp Leu Arg Cys His Arg Leu
65 70 75 80

Gln Asp Ser Leu Phe Ser Ser Asp Ser Gly Phe Ser Asn Tyr Arg Gly
85 90 95

Ile Leu Asn Trp Cys Val Val Met Leu Ile Leu Ser Asn Ala Arg Leu
100 105 110

Phe Leu Glu Asn Leu Ile Lys Tyr Gly Ile Leu Val Asp Pro Ile Gln
115 120 125

Val Val Ser Leu Phe Leu Lys Asp Pro Tyr Ser Trp Pro Ala Pro Cys
130 135 140

Val Ile Ile Ala Ser Asn Ile Phe Val Val Ala Ala Phe Gln Ile Glu
145 150 155 160

Lys Arg Leu Ala Val Gly Ala Leu Thr Glu Gln Met Gly Leu Leu Leu
165 170 175

His Val Val Asn Leu Ala Thr Ile Ile Cys Phe Pro Ala Ala Val Ala
180 185 190

Leu Leu Val Glu Ser Ile Thr Pro Val Gly Ser Val Phe Ala Leu Ala
195 200 205

Ser	Tyr	Ser	Ile	Met	Phe	Leu	Lys	Leu	Tyr	Ser	Tyr	Arg	Asp	Val	Asn	210	215	220	
Leu	Trp	Cys	Arg	Gln	Arg	Arg	Val	Lys	Ala	Lys	Ala	Val	Ser	Thr	Gly	225	230	235	240
Lys	Lys	Val	Ser	Gly	Ala	Ala	Ala	Gln	Gln	Ala	Val	Ser	Tyr	Pro	Asp	245	250	255	
Asn	Leu	Thr	Tyr	Arg	Asp	Leu	Tyr	Tyr	Phe	Ile	Phe	Ala	Pro	Thr	Leu	260	265	270	
Cys	Tyr	Glu	Leu	Asn	Phe	Pro	Arg	Ser	Pro	Arg	Ile	Arg	Lys	Arg	Phe	275	280	285	
Leu	Leu	Arg	Arg	Val	Leu	Glu	Met	Leu	Phe	Phe	Thr	Gln	Leu	Gln	Val	290	295	300	
Gly	Leu	Ile	Gln	Gln	Trp	Met	Val	Pro	Thr	Ile	Gln	Asn	Ser	Met	Lys	305	310	315	320
Pro	Phe	Lys	Asp	Met	Asp	Tyr	Ser	Arg	Ile	Ile	Glu	Arg	Leu	Leu	Lys	325	330	335	
Leu	Ala	Val	Pro	Asn	His	Leu	Ile	Trp	Leu	Ile	Phe	Phe	Tyr	Trp	Phe	340	345	350	
Phe	His	Ser	Cys	Leu	Asn	Ala	Val	Ala	Glu	Leu	Leu	Gln	Phe	Gly	Asp	355	360	365	
Arg	Glu	Phe	Tyr	Arg	Asp	Trp	Trp	Asn	Ala	Glu	Ser	Val	Thr	Tyr	Phe	370	375	380	
Trp	Gln	Asn	Trp	Asn	Ile	Pro	Val	His	Lys	Trp	Cys	Ile	Arg	His	Phe	385	390	395	400
Tyr	Lys	Pro	Met	Leu	Arg	His	Gly	Ser	Ser	Lys	Trp	Val	Ala	Arg	Thr	405	410	415	
Gly	Val	Phe	Leu	Thr	Ser	Ala	Phe	Phe	His	Glu	Tyr	Leu	Val	Ser	Val	420	425	430	
Pro	Leu	Arg	Met	Phe	Arg	Leu	Trp	Ala	Phe	Thr	Ala	Met	Met	Ala	Gln	435	440	445	
Val	Pro	Leu	Ala	Trp	Ile	Val	Gly	Arg	Phe	Phe	Gln	Gly	Asn	Tyr	Gly	450	455	460	

Asn Ala Ala Val Trp Val Thr Leu Ile Ile Gly Gln Pro Val Ala Val
465 470 475 480

Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr Asp Ala Pro Val
485 490 495

Gly Val